



Site
Investigation
Report
Review

SIRR Report for Unassigned Uncontrolled Sites

CON 12-15
Doc #16056

SIRR ID P42-0001
Site Name KOCH FERTILIZER - IOWA FALLS
City Location Iowa Falls
Site Type Property Audit
County Hardin

Screening Activity Initial Site Screening

SITE INFORMATION

Property Owner Koch Fertilizer Storage and Terminal Company
Mailing Address Scott Christensen
Koch Fertilizer Storage and Terminal Company
One Danuser Drive
Hermann, Missouri 65041
(573) 486-5489 ext 253
Location/Legal Description Iowa Falls Ammonia Terminal
11122 County Highway S-55
Ackley, Iowa 50601

Size Of Property

Report Prepared By Black & Veatch
Report Submitted By Neil Leipzig, Conestoga - Roverss & Associates
Date Report Submitted 03/13/2000
Current Usage Ammonia Terminal

REPORT INFORMATION SUMMARY

I. Summarize the data submitted (no., type, depth of soil borings, surface samples, ground water samples, other sampling conducted, analyses performed, contamination identified, etc.)

Limited Site Assessment Activities, Black & Veatch, March 2000

Eleven soil borings (15' deep) were installed in December 1999. The borings were installed around the ammonia storage tanks and terminal buildings. Soil samples were collected at 5' and 9' below ground. Groundwater samples were collected from the three boreholes (SB-2, SB-7, SB-11) which contained groundwater. There is no discussion of the type of drilling equipment or the sampling procedures. Some type of probe equipment appears to have been used to collect the samples. The soil and groundwater samples were submitted for the laboratory analyses of ammonia and nitrates (as N).

Ammonia was found above minimum detection limits in two of the soil borings (SB-2 and SB-4). Nitrate was also found above minimum detection limits in two of the soil borings (SB-4 and SB-11). The highest contaminant levels were 33 mg/kg (ammonia as N) and 14 mg/kg (nitrate as N).

Nitrate was found above minimum detection limits in groundwater samples from two of the soil borings (SB-7 and SB-11).

Friday, March 17, 2000

Page 1 of 3



Site Investigation Report Review

SIRR ID P42-0001

Site Name KOCH FERTILIZER - IOWA FALLS

The highest level of contamination was 10.6 mg/l (nitrate as N).

II. Summarize the site history (past usages, known or suspected contamination pathways such as tanks, S.W. burial, septic tank/tile field, lagoon, land application, etc.)

Phase I Environmental Site Assessment, Black & Veatch, November 1999

The facility was constructed in 1970-72 by Gulf Central Storage and Terminal Company. The current owner (Koch Fertilizer Storage and Terminal Company) is in the process of selling the facility to Cargill Inc..

The site is located approximately 9 miles east-northeast of Iowa Falls. The property has been used by as an ammonia fertilizer storage and terminal facility since the early 1970s. There are two system compressor buildings. There are two large insulated and refrigerated ammonia storage tanks with ancillary piping and support systems. Each tank holds 30,000 tons of ammonia fertilizer.

There are three wells on property. They are at least 310 feet deep and cased to at least 167 feet below ground. The wells are for potable water and cooling water supply or for re-injection of cooling water. The well logs indicate the glacial till layer is approximately 137-165 deep at the site.

All surrounding land use is for agricultural purposes.

III. Summarize the other relevant information (include what may have been learned or known from sources other than the report itself, such as DNR files)

ArcView

The nearest rural residences are located approximately 1000 feet southwest and northwest of the site.

REVIEW SUMMARY

Contaminant Type Ag Chemical

I. Summarize your findings and conclusions regarding the contaminants found and their extent and concentrations. Relate those values known criteria such as water quality standards, MCLs, established cleanup levels, background or any other relevant or useful benchmarks used to determine the site's priority.

The March 1999 sample results indicate there has been no significant release of ammonia or to soil or groundwater at the site. The highest levels soil contamination are well below the levels commonly found at agricultural dealerships. They present no incidental soil ingestion exposure risks and were at levels not expected to cause significant groundwater contamination. The highest level of nitrate found in groundwater (10.6 mg/l as N) is just above the groundwater action level (10 mg/l as N).

II. Summarize the potential or actual impacts of the contamination. What is known about the neighboring area, i.e., are there residences, businesses, public use areas, etc.? Are there wells in the area that could be potentially impacted? Are there identified contaminant pathways such as water or sewer lines, drain tiles, or fissures? Identify any other use/location issues that deserve consideration in any priority assignment.

There is no potential impact from the level of contamination found at the site. The isolated location of the site is probably due to concerns with the potential for a release of anhydrous ammonia gas to the atmosphere.

III. Summarize any other information, knowledge, or reasoning used in determining your recommendation regarding the priority assigned to this site.

The site does not warrant any further action now or in the future regardless of the amount of resources available to the



Site Investigation Report Review

SIRR ID P42-0001

Site Name KOCH FERTILIZER - IOWA FALLS

department. The 3-4 priority is assigned because of the reported exceedence of the groundwater action level for nitrate.

PRIORITY LEVEL

Priority Level 3-4

PROGRAM AUTHORITY REFERRAL

Program Authority Referral No Further Action

Other Referral

ISS/Form Completed By John Vedder

Date ISS Completed 03/17/2000

ESS Completed B

Date ESS Completed

Date Completed

Form Reviewed

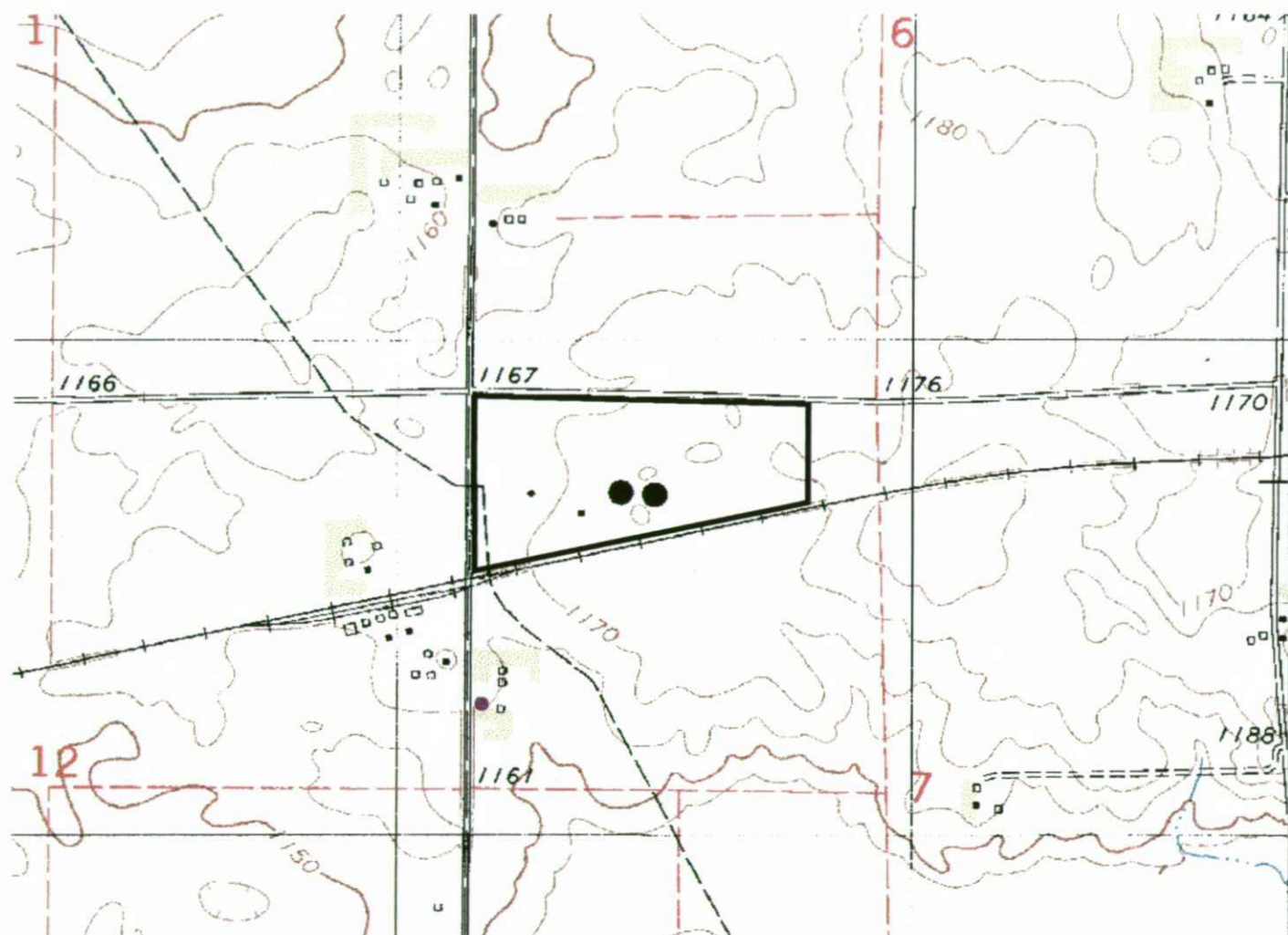
Susan Dixon

Date Reviewed

Susan Dixon


3/20/00

Koch Fertilizer - Ammonia Terminal



800 0 800 1600 2400 Feet



 User0301.shp
 Geoutm





NO EPA ID

NO DISCOVERY DATE

NPL Status = O-NOT A VALID SITE OR INCIDENT

Site Name: Koch Fertilizer - Iowa Falls Initiated Date 3/13/00 Initiated By: ☐ Removal ☒ Site AssessmentList Site Alias Name (s): Koch Fertilizer - Ammonia TerminalAddress: 1122 County Highway 555 County Name: HardinCity, State, Zip: Ackley, IA 50601 State ID (if one exists): _____ Congressional District: _____NPL Status: ☒ NOT A VALID SITE OR INCIDENTFederal Facility?: ☐ Yes ☒ NoSection: ☐ C-(SACR) Site Assessment/Cost Recovery Branch ☐ L-(EFLR) Enfr/Fund Lead RV Branch
☐ F-(FFSE) Federal Facilities/Apecial Emphasis Brnach ☐ M-(MOKS) MO/KS remedial Branch
☐ I-(IANE) IA/NE Remedial Branch ☐ O-(ER&R) Emergency Response & RV BranchDirections to Site: The site is approximately 6 miles east of Iowa Falls. It is one mile south of U.S. 20 on the east side of County 555. Map attached.Site Description: The site has been used as an ammonia fertilizer storage and terminal facility since the early 1970s.

Site Size: _____

Site Dimension: ☐ Acres ☐ Square Feet
☐ Feet ☐ Square Miles
☐ MilesSite Type: ☐ Disposal ☒ Storage
☐ Midnight Dump ☐ Transportation Related
☐ Other ☐ Treatment
☐ Production Facility (active) ☐ Treatment (active)
☐ Production Facility (inactive)Owner Operator Type: ☐ Bank/Loan Company
☐ County Owned
☐ District Owned
☐ Federally Owned
☐ Former Federally Owned or Operated
☐ Government Owned/Contractor Operated
☐ Indian Lands
☐ Mixed Ownership
☐ Municipality
☐ Other
☒ Private
☐ Privately Owned/Government Operated
☐ Property Defaulted Back to Government
☐ State Owned
☐ Trustee, Federal
☐ Trustee, State
☐ UnknownIncident Type: ☒ Non-Oil Spill
☐ Oil Spill
☐ UnknownIncident Category: ☐ Abandoned ☐ Fire/Explosion
☒ Chemical Plant ☐ Landfill
☐ City Contamination ☐ Manufacturing Plant
☐ Dioxin ☐ Military Related
☐ Ecological Damage ☐ Other
☐ Federal Facility ☐ Pure Lagoons
☐ Groundwater ☐ Radioactive Site
☐ Housing Area/Farm ☐ Mines/Tailings
☐ Industrial Waste Treatment
☐ Inorganic Waste ☐ Waterways/Creeks/Rivers
☐ Biological Threat ☐ Wells

RCRA Site: _____

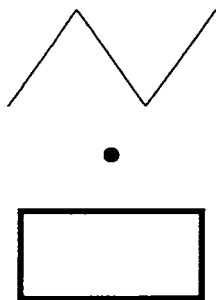
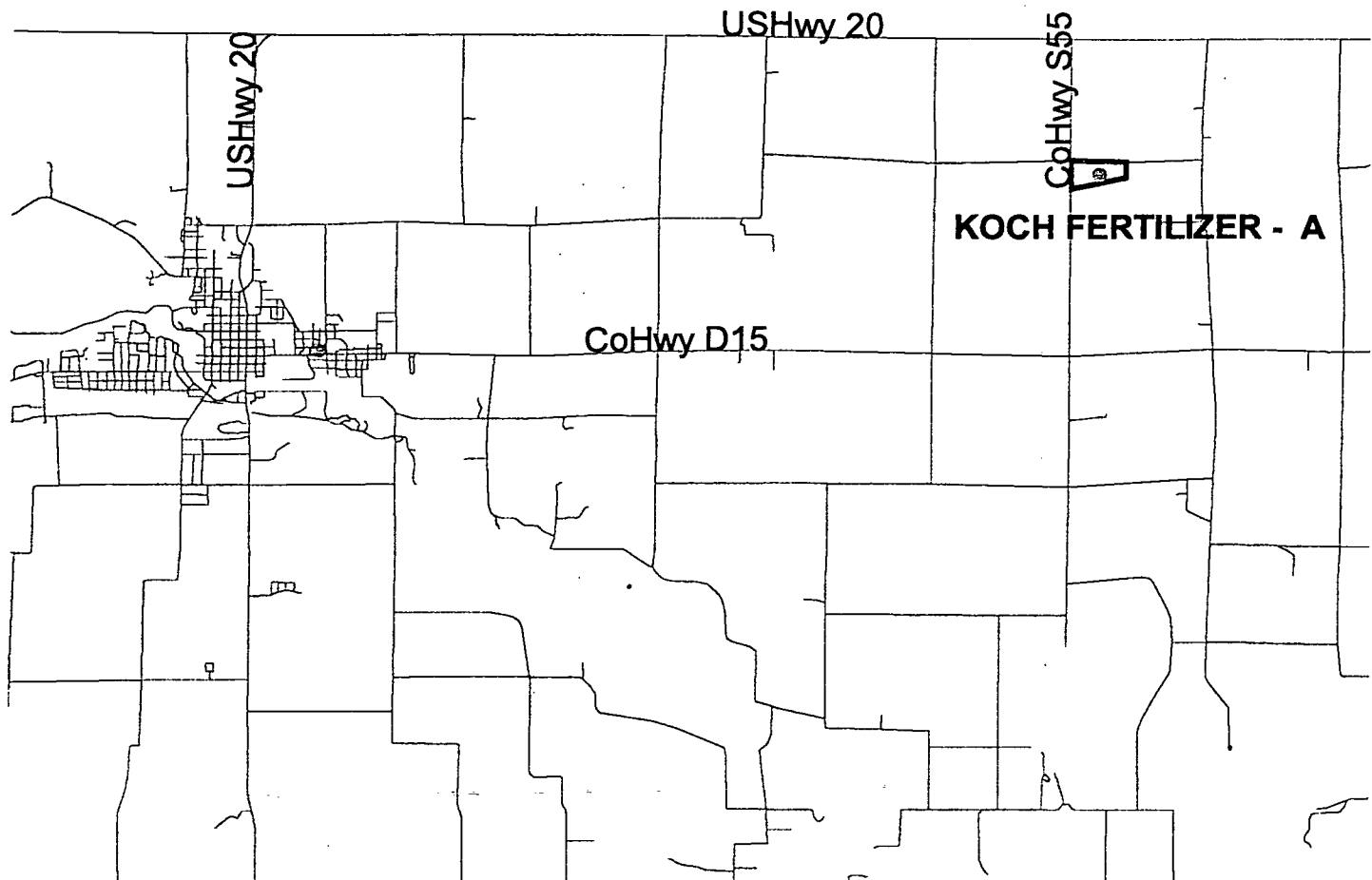
USGS Quadrant: _____ USGS Hydro Unit: _____

Operational Status: ☒ Active
☐ Inactive
☐ UnknownLatitude: _____ Longitude: _____
Lat/Long Accuracy: ☐ Seconds ☐ Lat/Long Source:
☐ Meters ☐ EPA Region 7
☐ Feet ☐ EPIC
☐ Kilometers ☐ Geograph-Historical
☐ Miles ☐ Other
☐ 1 Degree ☐ Other Fed Agency
☐ PrivateAdd Action: ☒ PRE-CERCLIS SURVEYS Planned Complete: 1/1 Actual Complete: 3/17/00 OU 00Lead code (chose one): ☐ F-EPA Fund Financed ☐ FF - Federal Facility ☒ S - State, Fund Financed SCAP Note: _____Comment: ☐ Site or ☐ Action: No further action by state or EPA

Signatures:

State: John Veddler Date: 4/5/00 RPM/OSC/SAM: _____ Date 1/1

Koch Fertilizer Ammonia Terminal, Iowa Falls, Iowa



Roads42

Userpt.shp

User.shp



PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: John Vedder, Environmental Specialist 3/17/2000
(Name/Title) (Date)
Iowa DNR, Des Moines, IA (515) 242-5087
(Address) (Phone)

Site Name: Koch Fertilizer - Iowa Falls
(E-Mail Address)

Previous Names (if any): _____

Site Location: 11122 County Highway S-55
(Street)
Ackerley IA 50601
(City) (ST) (Zip)

Latitude: _____ Longitude: _____

Complete the following checklist. If "yes" is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, EPA approved risk assessment completed)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please explain all "yes" answer(s), attach additional sheets if necessary: _____

Site Determination:

☐ Enter the site into CERCLIS. Further assessment is recommended (explain below).

☒ The site is not recommended for placement into CERCLIS (explain below).

DECISION/DISCUSSION/RATIONALE:

Refer to attach SIRR Report

Regional EPA Reviewer:

Print Name/Signature

Date

State Agency/Tribe:

Susan Dixon / Susan Dixon
Print Name/Signature

3/20/00
Date